

Title (en)
Digital fluid flow control apparatus.

Title (de)
Digitaler Fluidstrom-Steuerungsapparat.

Title (fr)
Système de contrôle de débit numérique.

Publication
EP 0029225 A1 19810527 (EN)

Application
EP 80107014 A 19801113

Priority
US 9529279 A 19791119

Abstract (en)

The apparatus comprises a generally cylindrical valve body (10) having a cylindrical axis. An inlet (27) to the valve has an axis extending radially from the cylindrical axis. An outlet (29) from the valve has an axis extending radially from the cylindrical axis in alignment with the inlet axis. A cylindrical manifold (20) is coaxially disposed in the valve body in a laterally displaced relationship with the inlet and outlet. An annular manifold (24) is coaxially disposed in the valve body in laterally spaced relationship with the inlet and outlet. The annular manifold lies between the cylindrical manifold and the inlet and outlet and surrounds a portion of the valve body. A passage (21, 25) extends through the valve body from the inlet to one of the manifolds. Another passage (30) extends through the valve body from the outlet to the other manifold. The passage to the cylindrical manifold passes through the portion of the valve body (31) surrounded by the annular manifold. A plurality of digital bistable valve elements (40) connect the cylindrical manifold and the annular manifold.

IPC 1-7
F16K 27/00; F16K 1/52; F16K 31/06

IPC 8 full level
F16K 1/52 (2006.01); **F16K 1/54** (2006.01); **F16K 27/00** (2006.01); **F16K 31/06** (2006.01); **G05D 7/01** (2006.01)

CPC (source: EP US)
F16K 27/003 (2013.01 - EP US); **Y10T 137/87314** (2015.04 - EP US)

Citation (search report)

- US 3331393 A 19670718 - HERBERT ERNYEI
- DE 2500682 A1 19750717 - PROCESS SYSTEMS
- US 2807280 A 19570924 - KITTREDGE ARTHUR E
- US 2229903 A 19410128 - SCHMOHL LELAND H, et al

Cited by
FR2616195A1; DE3810788A1; FR2531766A1; EP0130548A1; FR2548329A1; US4577658A; WO02061516A1

Designated contracting state (EPC)
AT BE DE FR GB IT NL SE

DOCDB simple family (publication)
EP 0029225 A1 19810527; EP 0029225 B1 19851030; AT E16307 T1 19851115; CA 1158132 A 19831206; DE 3071212 D1 19851205;
JP S5699514 A 19810810; US 4303097 A 19811201

DOCDB simple family (application)
EP 80107014 A 19801113; AT 80107014 T 19801113; CA 364066 A 19801105; DE 3071212 T 19801113; JP 16206880 A 19801119;
US 9529279 A 19791119